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Title: JP11260335A2: SEPARATOR FOR SEALED LEAD-ACID BATTERY

Country: JP Japan

Kind: A

Inventor: MATSUNAMI TAKAAKI;  
AZUMATO YOSHIHISA;  
KAWACHI MASAHIRO;Assignee: NIPPON MUKI CO LTD  
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Application Number: JP1998000073095

IPC Code: H01M 2/16;

Priority Number: 1998-03-06 JP1998199873095

Abstract:

PROBLEM TO BE SOLVED: To reduce the thickness without deteriorating discharge characteristic and to improve the highly efficient discharge characteristic by impregnating a sheet prepared by a wet type sheet formation and principally constructed of glass fiber, with liquid dispersed with inorganic powder, and dispersingly arranging the inorganic powder grains between the glass fiber.

SOLUTION: As glass fiber, alkali-containing glass fiber with 0.5-4  $\mu\text{m}$  of a mean fiber diameter is used. In wet type sheet formation of a sheet, principally consisting of glass fiber from average diameter glass fiber, either a composition consisting of glass fiber alone or a composition containing at most 5% of organic binder fiber to the separator weight may be used. Inorganic powder is uniformly dispersed over the entire surface and pores formed inside of a sheet formed of glass fiber principally to act to make labyrinth, complicating the porous structure of a separator. The quantity of the inorganic powder is set 5-50% vol.% of a pure volume of the separator, and preferably its grain diameter is smaller than that of the sheet and set to be 5  $\mu\text{m}$  or less.

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